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Sep 19, 2002

DERWENT-ACC-NO: 2002-627202

DERWENT-WEEK: 200269

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TITLE: Recycling bonded fibrous materials comprises suspending pieces of bonded fibrous materials in liquid, applying mechanical work to suspension, and separating individual fibers and fiber-like components from liquid

INVENTOR: GARCIA, M C; PALACIO, G ; RAMIREZ, P ; VANEGAS, B

PATENT-ASSIGNEE:

ASSIGNEE

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PRIORITY-DATA: 2000US-247321P (November 10, 2000), 2001US-0992110 (November 5, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020132121 A1	September 19, 2002		000	B32B007/12
WO 200240766 A2	May 23, 2002	E	054	D21B001/32
AU 200228255 A	May 27, 2002		000	D21B001/32

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM
DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ
VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT
SD SE SL SZ TR TZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20020132121A1	November 10, 2000	2000US-247321P	Provisional
US20020132121A1	November 5, 2001	2001US-0992110	
WO 200240766A2	November 6, 2001	2001WO-IB02770	
AU 200228255A	November 9, 2001	2002AU-0028255	
AU 200228255A		WO 200240766	Based on

INT-CL (IPC): B32 B 7/12; B32 B 9/00; B32 B 15/04; D21 B 1/32

ABSTRACTED-PUB-NO: US20020132121A

BASIC-ABSTRACT:

NOVELTY - Bonded fibrous materials are recycled by suspending discrete pieces of bonded fibrous materials in a liquid; applying mechanical work to the liquid suspension to generate hydraulic pressure and mechanical shear stress conditions to hydraulically fragment the bonded fibrous materials into fibers and fiber-like components; and separating individual fibers and fiber-like components from the liquid.

USE - The inventive method is for recycling bonded fibrous materials, e.g. woven fabrics, knitted fabrics and/or non-woven webs. Bonded fibrous materials in the form of non-woven webs are webs that are thermally bonded, adhesively bonded, mechanically entangled, solvent bonded, and/or hydraulically entangled (all claimed). The recycled bonded fibrous materials can be used as wipers or fluid distribution layer and/or absorbent components of absorbent products.

ADVANTAGE - The inventive method provides inexpensive recycled fiber or fiber-like materials that may be easily processed into a uniform sheet or web. The use of these recycled materials economically and environmentally substitutes for high-quality virgin wood fiber pulp and/or new synthetic fibers or filaments.

ABSTRACTED-PUB-NO:

WO 200240766A

EQUIVALENT-ABSTRACTS:

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CHOSEN-DRAWING: Dwg.0/14

TITLE-TERMS: RECYCLE BOND FIBRE MATERIAL COMPRISE SUSPENSION PIECE BOND FIBRE MATERIAL LIQUID APPLY MECHANICAL WORK SUSPENSION SEPARATE INDIVIDUAL FIBRE COMPONENT LIQUID

DERWENT-CLASS: F09 P73

CPI-CODES: F05-A02B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-176774